

Title (en)
AUTOMATIC THREE-WHEELED VEHICLE

Title (de)
AUTOMATISCHES DREIRAD

Title (fr)
VÉHICULE À TROIS ROUES AUTOMATIQUE

Publication
EP 3037333 A4 20170712 (EN)

Application
EP 13887499 A 20130619

Priority
JP 2013066822 W 20130619

Abstract (en)
[origin: EP3037333A1] A motor tricycle that enables a cornering performance to be enhanced without the use of any differential gear and any active suspension is provided. The motor tricycle has a control unit for performing, when a travel speed V is not less than a predetermined speed V1, and a steering angle δ is not less than a predetermined angle δ_1 , addition of an additional rotation speed ratio Rd1 meeting the thus travel speed V and the thus steering angle δ to an outer-wheel necessary rotation speed ratio R0 being a rotation speed ratio obtained in accordance with the handlebar steering angle δ , detected by a steering angle detecting means on the assumption that no skid occurs between each of left and right rear wheels and a road surface at the time when a vehicle body turns a curve by the turning operation of a handlebar, specifically, a rotation speed ratio to an inner wheel, more specifically, a rotation speed ratio required for an outer wheel, and then permitting the outer wheel to be driven by drive means with a rotation speed ratio R resulting from the addition.

IPC 8 full level
B62K 5/027 (2013.01); **B60L 15/20** (2006.01); **B60W 10/08** (2006.01)

CPC (source: EP US)
B60K 7/0007 (2013.01 - EP); **B60L 3/102** (2013.01 - EP); **B60L 15/2036** (2013.01 - EP); **B62J 45/412** (2020.02 - EP US); **B62J 45/413** (2020.02 - EP US); **B62K 5/027** (2013.01 - EP US); **B60K 2007/0092** (2013.01 - EP); **B60K 2023/0833** (2013.01 - EP); **B60L 2200/22** (2013.01 - EP); **B60L 2200/24** (2013.01 - EP); **B60L 2220/44** (2013.01 - EP); **B60L 2220/46** (2013.01 - EP); **B60L 2240/12** (2013.01 - EP); **B60L 2240/14** (2013.01 - EP); **B60L 2240/24** (2013.01 - EP); **B60L 2240/421** (2013.01 - EP); **B60L 2240/461** (2013.01 - EP); **B60L 2240/465** (2013.01 - EP); **B60Y 2200/122** (2013.01 - EP); **B62K 2204/00** (2013.01 - EP); **Y02T 10/64** (2013.01 - EP); **Y02T 10/72** (2013.01 - EP)

Citation (search report)

- [Y] US 2002014360 A1 20020207 - NAKAKITA OSAMU [JP], et al
- [Y] JP 2009190649 A 20090827 - VIEWTEC JAPAN CO LTD
- [A] CN 201525456 U 20100714 - MINGJUN HE
- See references of WO 2014203345A1

Cited by
DE102019003129B3; DE102016115803A1; EP3932729A1; WO2020221474A3; WO2020221474A2

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